

REDUCTION OF INTERRUPTS IN REMOTE PROCEDURE CALLS
ABSTRACT OF THE INVENTION

5 A method and system for executing one or more remote procedure calls. In one embodiment, a method comprises the step of a processing unit issuing a plurality of commands to a corresponding DMA controller. One or more commands of the plurality of commands issued by the processing unit are to copy attached processing unit instructions associated with one or more Attached Processing Unit's (APU's) and data associated with the attached processing unit instructions from the shared memory to one or more APU's. The attached processing unit instructions may include instructions that enable the associated one or more APU's to perform one or more particular operations on the data. The method further comprises the DMA controller issuing an indication to the one or more APU's to perform the one or more operations on the data associated with the attached processing unit instructions. Instead of having the particular APU that completed its operation notify the corresponding processing unit of its completion of the operation, the DMA controller polls a status line of each of the one or more attached processing units to determine if any of the one or more attached processing units completed its operation. The DMA controller then copies the results of the operations after each of the one or more attached processing units completes its operation.

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